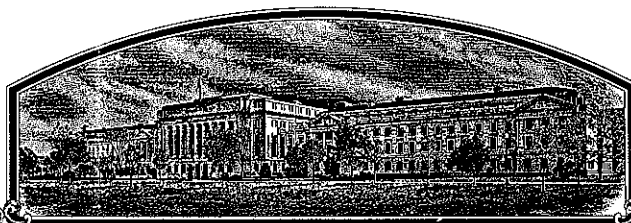


No.

9400167



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Agripco Seeds, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS BY THE OWNER OF THE RIGHTS. (34 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Clemens'

In Testimony Whereof, I have hereunto set
my hand and caused the seal of the Plant
Variety Protection Office to be affixed
at the City of Washington, D.C.
this 31st day of March in
the year of our Lord one thousand nine
hundred and ninety-five.

Attest:

Russell E. Evans
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Jan F. Feltman
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(INSTRUCTIONS ON REVERSE)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)

RWS 3-23-95 ~~AgriPro Biosciences Inc.~~ ~~AgriPro Seeds, Inc.~~

HybriTech US, a Monsanto Company

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.

ABI89-4580

4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)

6700 Antioch
Shawnee Mission, Kansas 66204

5. PHONE (include area code)

913-384-4940
317-563-3111

3. VARIETY NAME

CLEMENS

FOR OFFICIAL USE ONLY

PVPO NUMBER

9400167

F
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L
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G

Date

May 5, 1994

Time

☐ A.M. ☐ P.M.F
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Filing and Examination Fee:

\$ 2,325.00

Date

May 5, 1994

Certificate Fee:

\$ 275.00

Date

Feb. 9, 1995

6. GENUS AND SPECIES NAME

Triticum aestivum

7. FAMILY NAME (Botanical)

Gramineae

8. CROP KIND NAME (Common Name)

Soft Red Winter Wheat

9. DATE OF DETERMINATION

July 1991

10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.)

Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION

Delaware

12. DATE OF INCORPORATION

Februaury 8, 1989

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

Dr. Roy Miskin
East 8th Street 317-563-3111
P.O. Box 411
Brookston, Indiana 47923Mark J. Messmer
HybriTech US
5912 North Meridian
Wichita KS 67204R.F. Bruns
P.O. Box 30
806 N. 2nd Street 303-532-3721

PHONE (include area code): Berthoud, Colorado 80513

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse)

- a. ☒ Exhibit A, Origin and Breeding History of the Variety
 b. ☒ Exhibit B, Novelty Statement
 c. ☒ Exhibit C, Objective Description of Variety
 d. ☒ Exhibit D, Additional Description of Variety
 e. ☒ Exhibit E, Statement of the Basis of Applicant's Ownership
 f. ☒ Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office _____
 g. ☒ Filing and Examination Fee (\$2,325) made payable to "Treasurer of the United States"

Exhibit H. Quality and Agronomic Data

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See section 83(a) of the Plant Variety Protection Act) ☒ YES (If "YES," answer items 16 and 17 below) ☐ NO (If "NO," skip to item 18 below)

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☒ YES ☐ NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

☒ FOUNDATION ☒ REGISTERED ☒ CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?

☐ YES (If "YES," through ☐ Plant Variety Protection Act ☐ Patent Act. Give date: _____).
☒ NO

19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES?

☐ YES (If "YES," GIVE NAMES OF COUNTRIES AND DATES) _____
☒ NO

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT [Owner(s)]

CAPACITY OR TITLE

DATE

SIGNATURE OF APPLICANT [Owner(s)]

CAPACITY OR TITLE

DATE

EXHIBIT A.

ORIGIN AND BREEDING HISTORY OF CLEMENS

Parentage: Pike/Coker 833

Date of Cross: April 1983

The cross between Pike and Coker 833 was made in the 1983 spring greenhouse at Brookston, Indiana. The F1, F2 and F3 were grown in Marion, Arkansas in 1984, 1985 and 1986. Ninety two F4 heads were selected from the F3 population and advanced by single seed descent to the F6 generation in the Brookston greenhouse. Forty-three F6 selections were grown as Pre-Y1 (headrows) in the field at Brookston in 1988. The selection that became 89I-4580 was selected for height and disease resistance and grown in Y1 trials at two locations in 1989. Clemens has been in advanced testing from 1990 to the present and was in the Uniform Eastern Soft Wheat Nursery in 1993 and 1994 under the experimental number ABI89-4580.

In 1991, one hundred headrows were grown in Brookston, Indiana, and five rows were discarded for being too tall. In 1992, 60 headrows were grown in Berthoud, Colorado, nested in a 0.2A initial seed increase. In 1993, 6,348 pounds of breeders seed were grown in Frankfort, Indiana.

Clemens has been uniform and stable since 1992. Less than 0.5% of the plants were rogued from the breeder seed field in 1993. Approximately 90% of the variant plants were taller, awnletted wheat plants and 5% were awned wheat plants. Up to 1% variant plants may be encountered in subsequent generations.

EXHIBIT B.**NOVELTY STATEMENT CLEMENS**

Clemens is most similar to the soft red winter wheat Pike. However, it can be easily distinguished by the following morphological characteristic:

- Clemens has a midwide glume width. Pike has a midwide to wide glume width. (See statistical data from 1992 & 1993 on the following pages).
- Clemens has an obtuse beak on the shoulder of the glume. Pike has an acute beak, (Crop Science; Registration No.645)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY
WHEAT (TRITICUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

3-23-85 ~~AgriPro Biosciences Inc.~~ AgriPro Seeds, Inc

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

6700 Antioch
Shawnee Mission, Kansas 66204 913-384-4940

FOR OFFICIAL USE ONLY

PVPO NUMBER

9400167

VARIETY NAME OR TEMPORARY DESIGNATION

CLEMENS

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g., 0 8 1 9 or 0 1 9) when number is either 99 or less or 9 or less.

1. KIND:

1 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:

2 1 = SPRING 2 = WINTER 3 = OTHER (Specify) 1 1 = SOFT 3 = OTHER (Specify)
2 = HARD

2 1 = WHITE 2 = RED 3 = OTHER (Specify)

3. SEASON - NUMBER OF DAYS FROM [] TO:

1 4 1 FIRST FLOWERING January 1st 1 4 3 LAST FLOWERING

4. MATURITY (50% Flowering):

--- **Equal to Cardinal
--- NO. OF DAYS EARLIER THAN --- 1 = ARTHUR 2 = SCOUT 3 = CHRIS
--- NO. OF DAYS LATER THAN --- 4 = LEMHI 5 = NUGAINES 6 = LEEDS

5. PLANT HEIGHT (From soil level to top of head):

1 0 4 CM. HIGH *Equal to Cardinal
--- CM. TALLER THAN ---
--- CM. SHORTER THAN --- 1 = ARTHUR 2 = SCOUT 3 = CHRIS
4 = LEMHI 5 = NUGAINES 6 = LEEDS

6. PLANT COLOR AT BOOTING (See reverse):

2 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

7. ANTHUR COLOR:

1 1 = YELLOW 2 = PURPLE

8. STEM:

1 Anthocyanin: 1 = ABSENT 2 = PRESENT 2 Waxy bloom: 1 = ABSENT 2 = PRESENT
2 Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT 1 Internodes: 1 = HOLLOW 2 = SOLID
0 5 NO. OF NODES (Originating from node above ground) 2 8 CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:

2 Anthocyanin: 1 = ABSENT 2 = PRESENT 2 Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:

1 Flag leaf at booting stage: 1 = ERECT 2 = RECURVED 2 Flag leaf: 1 = NOT TWISTED 2 = TWISTED
3 = OTHER (Specify): 2 Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT
1 Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT 2 4 CM. LEAF LENGTH (First leaf below flag leaf):
1 3 MM. LEAF WIDTH (First leaf below flag leaf)

FORM GR-470-5 (REVERSE)

11. HEAD:

☐ 3 Density: 1 = LAX 2 = DENSE 3 = middense

☐ 2 Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE
4 = OTHER (Specify) _____

☐ 3 Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED

☐ 2 Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED
5 = BROWN 6 = BLACK 7 = OTHER (Specify): _____

☐ 8. ☐ 0 CM. LENGTH

☐ 1 ☐ 1 MM. WIDTH

12. GLUMES AT MATURITY:

☐ 2 Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.)
3 = LONG (CA. 9 mm.)

☐ 2 Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.)
3 = WIDE (CA. 4 mm.)

☐ 4 Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED
4 = SQUARE 5 = ELEVATED 6 = APICULATE

☐ 1 Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

13. COLEOPTILE COLOR:

☐ 1 1 = WHITE 2 = RED 3 = PURPLE

14. SEEDLING ANTHOCYANIN:

☐ 2 1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

☐ 2 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

16. SEED:

☐ 1 Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL

☐ 1 Cleft: 1 = ROUNDED 2 = ANGULAR

☐ 3 Brush: 1 = SHORT 2 = MEDIUM 3 = LONG

☐ 1 Brush: 1 = NOT COLLARED 2 = COLLARED

☐ Phenol reaction (See instructions): 1 = IVORY 2 = FAWN 3 = LT. BROWN
4 = BROWN 5 = BLACK

☐ 3 Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) _____

☐ 6. ☐ 13 MM. LENGTH

☐ 3. ☐ 2 MM. WIDTH

☐ 4 ☐ 0 GM. PER 1000 SEEDS

17. SEED CREASE:

☐ 1 Width: 1 = 60% OR LESS OF KERNEL 'WINOKA'
2 = 80% OR LESS OF KERNEL 'CHRIS'
3 = NEARLY AS WIDE AS KERNEL 'LEMMY'

☐ 1 Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT'
2 = 35% OR LESS OF KERNEL 'CHRIS'
3 = 50% OR LESS OF KERNEL 'LEMMY'

18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant, 3 = Moderately Susceptible, 4 = Moderately Resistant)

☐ 2 STEM RUST (Races)

☐ 2 LEAF RUST (Races)

☐ 0 STRIPE RUST (Races)

☐ 0 LOOSE SMUT

☐ 2 POWDERY MILDEW

☐ 0 BUNT

☐ 4

 Septoria Complex
Soilborne Mosaic Virus, Rhizoctonia

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant, 3 = Moderately Susceptible, 4 = Moderately Resistant)

☐ 0 SAWFLY

☐ 0 APHID (Byrn.)

☐ 0 GREEN BUG

☐ 0 CEREAL LEAF BEETLE

☐ OTHER (Specify) _____

MESSIAN FLY

☐ 2 GP

☐ 2 A

☐ 1 B

☐ 2 C Resistant to H, I, K,

 RACES:
H3 gene

☐ 1 D

☐ 1 E

☐ 2 F

☐ 1 G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Pike	Seed size	Pike
Leaf size	Pike	Seed shape	Pike
Leaf color	Pike	Coleoptile elongation	Pike
Leaf carriage	Pike	Seedling pigmentation	Pike

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

 (a) L. T. Briggie and L. P. Reitz, 1963, *Classification of Triticum Species and Their Varieties Grown in the United States*, Technical Bulletin 1278, United States Department of Agriculture.

 (b) T. E. Walls, 1965, *A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity*, Contribution No. 25 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

EXHIBIT D.**ADDITIONAL BOTANICAL DESCRIPTION OF CLEMENS**

Clemens is a soft red winter wheat bred and developed by AgriPro Biosciences Inc. Clemens is a strong strawed, high yielding, medium height variety with medium-late maturity. Clemens provides resistance to leaf rust, stem rust, septoria complex, and powdery mildew. It provides moderate resistance to soilborne virus complex, Rhizoctonia and carries H3 gene for Hessian fly. Milling and baking characteristics are very good.

Juvenile growth habit is semi-erect. Plant color at boot stage is green with an erect, twisted flag leaf. Auricle hairs and anthocyanin are present. Head shape is strap, awnletted and yellow at maturity. Glumes are glabrous, midlong and midwide with square shoulders with obtuse beaks. Seed shape is ovate with rounded cheeks.

Clemens has a broad area of adaptation. It generally covers the area from the eastern Kansas border to central Pennsylvania and from the Kentucky-Tennessee border north.

ANOVA Table for Glume Width
Clemens vs. Pike 1992

9400167

TOTAL OBSERVATIONS: 50

	VAR	GLUMWID
N OF CASES	50	50
MINIMUM	1.000	2.700
MAXIMUM	2.000	4.000
MEAN	1.500	3.398
STANDARD DEV	0.505	0.377

THE FOLLOWING RESULTS ARE FOR:

VAR = 1.000 = Clemens

TOTAL OBSERVATIONS: 25

	VAR	GLUMWID
N OF CASES	25	25
MINIMUM	1.000	2.700
MAXIMUM	1.000	3.700
MEAN	1.000	3.120
STANDARD DEV	0.000	0.294

THE FOLLOWING RESULTS ARE FOR:

VAR = 2.000 = Pike

TOTAL OBSERVATIONS: 25

	VAR	GLUMWID
N OF CASES	25	25
MINIMUM	2.000	3.100
MAXIMUM	2.000	4.000
MEAN	2.000	3.676
STANDARD DEV	0.000	0.205

DEP VAR: GLUMWID N: 50 MULTIPLE R: 0.746 SQUARED MULTIPLE R: 0.556
ADJUSTED SQUARED MULTIPLE R: 0.547 STANDARD ERROR OF ESTIMATE: 0.254

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	2.564	0.113	0.000	.	22.613	0.000
VAR	0.556	0.072	0.746	.100E+01	7.753	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3.864	1	3.864	60.112	0.000
RESIDUAL	3.086	48	0.064		

KRUSKAL-WALLIS ONE-WAY ANALYSIS OF VARIANCE FOR 50 CASES 1992

DEPENDENT VARIABLE IS GLUMWID

GROUPING VARIABLE IS VAR

GROUP	COUNT	RANK SUM
Clemens= 1.000	25	369.000
Pike = -2.000	25	906.000

MANN-WHITNEY U TEST STATISTIC = 44.000

PROBABILITY IS 0.000

CHI-SQUARE APPROXIMATION = 27.441 WITH 1 DF

2

TOTAL OBSERVATIONS: 50

	VAR	GLUMWID
N OF CASES	50	50
MINIMUM	1.000	3.100
MAXIMUM	2.000	4.000
MEAN	1.500	3.580
STANDARD DEV	0.505	0.242

THE FOLLOWING RESULTS ARE FOR:

VAR = 1.000 = Clemens

TOTAL OBSERVATIONS: 25

	VAR	GLUMWID
N OF CASES	25	25
MINIMUM	1.000	3.100
MAXIMUM	1.000	3.800
MEAN	1.000	3.444
STANDARD DEV	0.000	0.204

THE FOLLOWING RESULTS ARE FOR:

VAR = 2.000 = Pike

TOTAL OBSERVATIONS: 25

	VAR	GLUMWID
N OF CASES	25	25
MINIMUM	2.000	3.300
MAXIMUM	2.000	4.000
MEAN	2.000	3.716
STANDARD DEV	0.000	0.197

DEP VAR: GLUMWID N: 50 MULTIPLE R: 0.569 SQUARED MULTIPLE R: 0.323
ADJUSTED SQUARED MULTIPLE R: 0.309 STANDARD ERROR OF ESTIMATE: 0.201

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	3.172	0.090	0.000	.	35.324	0.000
VAR	0.272	0.057	0.569	.100E+01	4.789	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	0.925	1	0.925	22.938	0.000
RESIDUAL	1.935	48	0.040		

KRUSKAL-WALLIS ONE-WAY ANALYSIS OF VARIANCE FOR 50 CASES 1993
DEPENDENT VARIABLE IS GLUMWID
GROUPING VARIABLE IS VAR

GROUP	COUNT	RANK SUM
-------	-------	----------

Clemens = 1.000	25	433.500
Pike = 2.000	25	841.500

MANN-WHITNEY U TEST STATISTIC = 108.500

PROBABILITY IS 0.000

CHI-SQUARE APPROXIMATION = 15.898 WITH 1 DF

EXHIBIT E.

STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP

RWS
3-23-95 ^{Seeds} AgriPro ~~Biosciences~~ Inc. is the applicant for protection in this case being:

- a) The incorporated business (registered in Delaware) for and within which regular employees have bred the named variety.
- b) The proprietary owner and intending commercial user of the variety.

EXHIBIT F.

QUALITY AND AGRONOMIC DATA

Quality Data page 1.

Agronomic Data pages 2.& 4.

9400167

ACRIPRO WHEAT
SOFT RED WINTER WHEAT
CLEMENS

YEAR	VARIETY OR LINE	LOC	MILLING				BAKING				SCORES		
			BRK FLR %	TOT FLR %	WH PROT %	FL PROT %	C. DIAM mm	T.G R	NORRIS HARD	MILL	BAKE	COMMENTS	
92	CLEMENS	FO	39.4	71.9	3	12.2	10.3	1	17	7-B	6-A		
92	CLEMENS	FO	40.4	73.3	2	11.3	9.8	1	20	6-A	6-A		
92	CLEMENS	CI	38.9	71.3	2	11.9	10.6	1	18	5-A	8-B		
92	CLEMENS	CI	38.6	71.1	2	12.4	11.2	1	20	5-A	8-B		
91	CLEMENS	FO	42.7	71.1	4	11.5	9.8	3	38	11-B	8-A		
91	CLEMENS	BK	42.5	71.7	3	12.8	11.3	1	46	9-A	9-A		
90	CLEMENS	FO	48.3	66.9	3	10.2	8.6	3	15	9-A	8-A		
90	CLEMENS	CA	44.3	69.7	1	10.5	9.3	3	26	7-A	12-B		
89	CLEMENS	BK	45.0	65.6	3	9.2	7.8	5	08	7-A	11-B		
AVERAGE			42.2	70.3	3	11.3	9.9	2	23	6-A	7-B		

92	CALDWELL	FO	41.7	72.5	3	10.4	8.8	3	22	6-A	7-B		
92	CALDWELL	FO	41.7	72.5	3	10.4	8.8	3	22	6-A	7-B		
92	CALDWELL	CI	38.4	70.1	3	11.4	10.0	3	25	6-A	8-B		
92	CALDWELL	CI	38.4	70.1	3	11.4	10.0	3	25	6-A	8-B		
91	CALDWELL	FO	41.1	70.2	4	11.2	10.4	3	45	12-B	7-A		
91	CALDWELL	BK	40.6	69.5	4	11.3	10.1	3	45	12-B	8-A		
90	CALDWELL	FO	45.1	66.7	4	11.0	9.0	1	19	13-B	6-A		
90	CALDWELL	CA	45.3	66.4	4	10.4	9.2	3	29	12-B	9-A		
89	CALDWELL	BK	41.6	64.0	4	9.7	7.8	1	24	13-B	7-A		
AVERAGE			41.5	69.1	4	10.8	9.3	3	28	8-B	7-B		

QUALITY RATINGS 1=EXCELLENT 5=ACCEPTABLE 9=UNACCEPTABLE

MILL SCORE=BR+FR BAKE SCORE=FR+CR+IG

A=EXCELLENT B=VERY GOOD C=ACCEPTABLE D=QUESTIONABLE F=UNACCEPTABLE

9400167

YIELD DATA SUMMARY

Y R	VARIETY	YIELD	TRIAL MEAN	I D	SITE	COUNTY	R E G I O N	
							S T A T E	T O N
	(Clemens)							
90	ABI89-4580	85.0	75.0	ABI	WOODBURN	TIPTON	IN	MW
90	ABI89-4580	81.0	75.0	ABI	FINDLAY	HANCOCK	OH	MW
90	ABI89-4580	64.0	58.0	ABI	BROOKSTO	WHITE	IN	MW
90	ABI89-4580	64.0	57.0	ABI	JAMESTOW	GREENE	OH	MW
90	ABI89-4580	54.0	51.0	ABI	XENIA		OH	
90	ABI89-4580	62.0	61.0	ABI	PANA	CHRISTIA	IL	MW
90	ABI89-4580	53.0	53.0	ABI	PANA	CHRISTIA	IL	MW
90	ABI89-4580	49.0	38.0	ABI	SULLIVAN	SULLIVAN	IN	MW
90	ABI89-4580	36.0	26.0	ABI	GRAYVILL	EDWARDS	IL	MM
90	ABI89-4580	30.0	23.0	ABI	SIKESTON	SCOTT	MO	MS
90	ABI89-4580	60.0	45.0	ABI	CRAWFORD		AR	MS
90	ABI89-4580	56.0	51.0	ABI	MARVELL	PHILIPS	AR	MS
90	ABI89-4580	85.0	75.0	ABI	WOODBURN	ALLEN	IN	MW
90	ABI89-4580	81.0	75.0	ABI	FINDLAY	HANCOCK	OH	MW
90	ABI89-4580	64.0	58.0	ABI	BROOKSTO	WHITE	IN	MW
90	ABI89-4580	64.0	57.0	ABI	JAMESTOW	GREENE	OH	MW
90	ABI89-4580	54.0	51.0	ABI	JAMESTOW	GREENE	OH	MW
90	ABI89-4580	62.0	61.0	ABI	PANA	CHRISTIA	IL	MW
90	ABI89-4580	53.0	53.0	ABI	PANA	CHRISTIA	IL	MW
90	ABI89-4580	49.0	38.0	ABI	SULLIVAN	SULLIVAN	IN	MW
90	ABI89-4580	36.0	26.0	ABI	GRAYVILL	EDWARDS	IL	MM
90	ABI89-4580	30.0	23.0	ABI	SIKESTON	SCOTT	MO	MS
90	ABI89-4580	60.0	45.0	ABI	CRAWFORD	CRITTEND	AR	MS
90	ABI89-4580	56.0	51.0	ABI	MARVELL	PHILLIPS	AR	MS
91	ABI89-4580	70.0	63.0	ABI	WOODBURN	ALLEN	IN	MW
91	ABI89-4580	72.0	67.0	ABI	FINDLAY	HANCOCK	OH	MW
91	ABI89-4580	51.0	46.0	ABI	BROOKSTO	WHITE	IN	MW
91	ABI89-4580	42.0	53.0	ABI	JONESBOR	CRAIGHEA	AR	MW
91	ABI89-4580	66.0	60.0	ABI	PANA	CHRISTIA	IL	MW
91	ABI89-4580	38.0	36.0	ABI	CARMI	WHITE	IL	MM
91	ABI89-4580	52.0	40.0	ABI	SULLIVAN	SULLIVAN	IN	MW
92	ABI89-4580	68.7	70.6	911	FINDLAY	HANCOCK	OH	MW
92	ABI89-4580	79.6	65.9	911	CARMI	MADISON	IL	MM
92	ABI89-4580	76.1	60.7	911	JAMESTOW	GREENE	OH	MW
92	ABI89-4580	57.7	68.5	911	ST. JACO	MADISON	IL	MM
92	ABI89-4580	87.4	80.6	911	JONESBOR	CRAIGHEA	AR	MS
93	ABI89-4580	69.7	57.6	USDE	BAY	CRAIGHEA	AR	MS
93	ABI89-4580	58.4	54.4	USDE	KEISER	MISSISSI	AR	MS
93	ABI89-4580	70.2	50.1	USDE	EXPERIME	SPALDING	GA	SO
93	ABI89-4580	80.4	71.5	USDE	PLYMOUTH	BERTIE	NC	CP
93	ABI89-4580	85.8	83.5	USDE	BLACKSBU	MONTGOME	VA	EA
93	ABI89-4580	68.5	52.7	USDE	BROWNSTO	FAYETTE	IL	MW
93	ABI89-4580	81.3	69.1	USDE	BROOKSTO	WHITE	IN	MW
93	ABI89-4580	45.0	35.1	USDE	PARSONS		KS	MW
93	ABI89-4580	57.3	48.6	USDE	COLUMBIA	BOONE	MO	MW
93	ABI89-4580	71.2	52.1	USDE	OVERTON	SMITH	TX	SO
93	ABI89-4580	39.0	39.6	USDE	ITHACA	TOMPKINS	NY	EA
93	ABI89-4580	80.5	69.8	USDE	W. LAFAYE	TIPPECAN	IN	MW
93	ABI89-4580	55.5	49.1	USDE	PRINCETO	CALDWELL	KY	MS
93	ABI89-4580	71.1	58.0	USDE	LEXINGTO	FAYETTE	KY	ME
93	ABI89-4580	81.6	71.3	NAPB	BROOKSTO	WHITE	IN	MW
93	ABI89-4580	68.8	63.2	NAPB	CARMI	WHITE	IL	MM

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(Clemens)

93 ABI89-4580	82.5	76.0	NAPB FINDLAY	HANCOCK	OH MW
93 ABI89-4580	53.4	53.8	PRIV GREYVILL	EDWARDS	IL MM
93 ABI89-4580	67.7	65.6	PRIV DELPHOS	ALLEN	OH MW
93 ABI89-4580	75.1	71.2	PRIV MARION	MARION	OH MW
93 ABI89-4580	66.1	71.1	PRIV ANSONIA	DARKE	OH MW
93 ABI89-4580	64.0	58.6	PRIV SIKESTON	SCOTT	MO MS
93 ABI89-4580	72.6	69.1	PRIV SULLIVAN	SULLIVAN	IN MW
93 ABI89-4580	44.1	40.0	PRIV WOODBURN	ALLEN	IN MW
93 ABI89-4580	46.1	39.7	PRIV ST. JACOB	ST. CLAIR	IL MM
93 ABI89-4580	52.9	44.1	UNIV BLISSFIE	LENAWEE	MI MW
93 ABI89-4580	85.0	73.8	USDE WOOSTER	WAYNE	OH WE
93 ABI89-4580	62.0	50.0	ABI JONESBOR	CRAIGHEA	AR MS
93 ABI89-4580	70.9	61.1	USDE PROSPER	COLLIN	TX SS
93 ABI89-4580	123.1	115.1	USDE ABERDEEN		ID MW
93 ABI89-4580	87.7	70.8	USDE STRYKER	WILLIAMS	OH MW
93 ABI89-4580	74.3	0.0	PRIV LAFAYETT	TIPPECAN	IN MW
93 ABI89-4580	69.7	0.0	PRIV IRLND		IN
93 ABI89-4580	76.3	0.0	PRIV GRSEB		IN
93 ABI89-4580	75.4	0.0	PRIV ATTICA		OH
93 ABI89-4580	47.8	0.0	PRIV W-C-H		OH
93 ABI89-4580	59.3	0.0	PRIV FLORA		IL
93 ABI89-4580	62.0	0.0	PRIV JACKSON		TN
93 ABI89-4580	45.3	0.0	PRIV DYER		TN
93 ABI89-4580	57.7	0.0	PRIV P FRG		VA
93 ABI89-4580	41.3	0.0	PRIV FRMNT		NC
93 ABI89-4580	61.0	62.0	UNIV UNIV PRK	CENTRE	TN EA
93 ABI89-4580	39.4	35.5	USDE MADISON		WI MW

AGRONOMY AND PATHOLOGY SUMMARY for AB189-4580

VARIETY	TEST WEIGHT	HEADING DATE	HEIGHT (IN)	LEAF RUST Severity	LEAF RUST Response	STEM RUST	POWDERY MILDEW	SEPTORIA COMPLEX	SBV COMPLEX	LODGING	HESSIAN FLY	RHIZOCTONIA
Clemens	57.5	145	42	2	2	0	0	3.7	4	4	H3	4
CARDINAL	55.7	145	42	4	3	5	4	3.8	4	3	H3	4

Test weight = lbs / bu

Heading = days from Jan. 1

All other ratings are a 1-9 scale, 1 = best.

BILL OF SALE AND ASSIGNMENT

KNOW ALL MEN BY THESE PRESENTS that AGRIPRO BIOSCIENCES INC., a Delaware corporation (hereinafter referred to as "Seller"), pursuant to that certain Asset Purchase Agreement of even date herewith by and between Seller and AGR ACQUISITION CORPORATION, a Delaware corporation (hereinafter referred to as "Buyer") and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does hereby grant, bargain, sell, assign, convey and deliver unto Buyer, all of Seller's right, title and interest in and to the plant varieties owned/registered by Seller and more particularly set forth on Exhibit A attached hereto for which PVP Certificates have been issued by or may be pending before the U. S. Department of Agriculture.

TO HAVE AND TO HOLD UNTO PURCHASER, its successors and assigns forever.

IN WITNESS WHEREOF, Seller has executed this Bill of Sale and Assignment as of the 30th day of June, 1994.

AGRIPRO BIOSCIENCES INC.

BY: W.A. Zama
Title: President

STATE OF KANSAS, COUNTY OF JOHNSON

Before me, the undersigned, a Notary Public of the State and County aforesaid, personally appeared W. A. ZAMA with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence) and who, upon oath, acknowledged himself to be the PRESIDENT of Agripro Biosciences Inc., the within named bargainer, a corporation, and that he as such PRESIDENT, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by himself as PRESIDENT.

WITNESS my hand and Notarial Seal at office the day and year above written.

Alma M. Weaver
Notary Public

My Commission Expires:

June 22, 1998

ALMA M. WEAVER

NOTARY PUBLIC
STATE OF KANSAS

My Appt. Exp. June 22, 1998

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "AGR ACQUISITION CORPORATION", CHANGING ITS NAME FROM "AGR ACQUISITION CORPORATION" TO "AGRIPRO SEEDS, INC.", FILED IN THIS OFFICE ON THE THIRTIETH DAY OF JUNE, A.D. 1994, AT 4:30 O'CLOCK P.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.



Edward J. Freel

SECRETARY OF STATE
AUTHENTICATION:

7169071

DATE:

07-01-94

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CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
AGR ACQUISITION CORPORATION

AGR Acquisition Corporation, a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware,

DOES HEREBY CERTIFY:

FIRST: that the Board of Directors of said corporation, by the unanimous written consent of its members filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Certificate of Incorporation of said corporation:

RESOLVED, that the Certificate of Incorporation of this corporation be amended by changing the Article thereof numbered "ARTICLE I" so that, as amended, said Article shall be and read as follows:

"ARTICLE I

Name

The name of the corporation (hereinafter called the 'Corporation') is Agripro Seeds, Inc."

SECOND: That in lieu of a meeting and vote of stockholders, the sole shareholder of the corporation has given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

FOURTH: That the capital of said corporation shall not be reduced under or by reason of said amendment.

IN WITNESS WHEREOF, said AGR Acquisition Corporation has caused this certificate to be signed by Gary T. Hancock, its President, and attested by Ann Steelman, its Secretary, this 30th day of June, 1994.

AGR ACQUISITION CORPORATION

BY:

Gary T. Hancock
Gary T. Hancock, President

ATTEST:

BY:

Ann Steelman
Ann Steelman, Secretary